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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/775,613 02/09/2004		02/09/2004	Laurence E. Allen III	10887-009US1	1619	
26181	7590	09/21/2005		EXAMINER		
FISH & RIO PO BOX 102		SON P.C.	MILLER, JONATHAN R			
		55440-1022	ART UNIT	PAPER NUMBER		
	•		3653			

DATE MAILED: 09/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

·····		Application	on No.	Applicant(s)					
		10/775,61	13	ALLEN, LAURENCE E.					
	Office Action Summary	Examiner		Art Unit					
		Jonathan	R. Miller	3653					
Period fo	The MAILING DATE of this communica or Reply	ation appears on the	cover sheet with the c	orrespondence add	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
2a) <u></u> □	Responsive to communication(s) filed This action is FINAL . 2by Since this application is in condition for closed in accordance with the practice)⊠ This action is n r allowance except	for formal matters, pro		merits is				
Dispositi	on of Claims								
5)	Claim(s) 1-11 and 13-33 is/are pending 4a) Of the above claim(s) 19-23 is/are claim(s) is/are allowed. Claim(s) 1,2,4-11,13-18 and 30-33 is/a claim(s) 3 and 29 is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the Entry displayers are subject to the Entry displayers are subjected to by the Entry displayers are subjected to be subjected to	withdrawn from cor are rejected. on and/or election re Examiner. a) accepted or b) on to the drawing(s) be see correction is require	equirement. objected to by the location be held in abeyance. See ed if the drawing(s) is objected to by the location because the drawing(s) is objected to be a second to	e 37 CFR 1.85(a). jected to. See 37 CF	- '				
	·	y the Examiner. 140	ne the attached Office	Action of foliar 1					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449 or PT No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	-152) ·				

Application/Control Number: 10/775,613 Page 2

Art Unit: 3653

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 and 7 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Vandeputte ('033). The reference discloses providing a slurry including a separation liquid and one or more particulate media materials; performing one or more classification separations on the slurry to produce a classified media having a controlled particle size distribution of the particulate media materials; combining the classified media with a mixture to be separated to generate a separation mixture, wherein the mixture to be separated includes plastic; and performing one or more density separations on the separation mixture (para. 91+).
- With regards to claim 7, the reference further discloses performing one or more classification or density separations on the slurry or the separation mixture, respectively includes separating the slurry or the separation mixture using one or more hydrocyclone separators (para. 91+).
- 4. With regards to claim 8, the reference further discloses performing one or more classification or density separations on the slurry media or the separation mixture, respectively, includes separating the slurry or the separation mixture using one or more cylindrical vortex separators (para. 91+).

Application/Control Number: 10/775,613 Page 3

Art Unit: 3653

5. With regards to claim 9, the reference further discloses performing one or more classification or density separations on the slurry or the separation mixture, respectively, includes separating the slurry or the separation mixture using one or more hydrocyclone separators and one or more cylindrical vortex separators (para. 91+).

6. With regards to claim 10, the reference further discloses performing one or more classification separations on the slurry includes separating the slurry using an arrangement of one or more density separators; and performing one or more density separations on the separation mixture includes separating the separation mixture using the arrangement of one or more density separators (para. 91+).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1, 2, 4-11, 13 18 and 30-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vandeputte in view of Laskowski et al. Vandeputte discloses the separation of plastics using a dense medium, and controlling the density of the medium through the addition of particulate materials. Laskowski et al. discloses all of the elements of the claims, but for the separation of plastics. At the time of the invention, it would have been obvious to one of ordinary skill in the art to utilize the teachings of Laskowski et al. to control the density of the separation medium in the separation of plastics as taught by Vandeputte. This provides the benefit of control of the density of the separation medium to achieve better separations of the

Art Unit: 3653

plastics. Vandeputte and Laskowski et al. are analogous art because they are from the same field of endeavor: density separators.

Allowable Subject Matter

9. Claims 3 and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan R. Miller whose telephone number is (571) 272-6940. The examiner can normally be reached on M-F: 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald P. Walsh can be reached on (571) 272-6944. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/775,613

Art Unit: 3653

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Page 5